

0590
1102#2
OIPE

RAW SEQUENCE LISTING DATE: 01/14/2002
 PATENT APPLICATION: US/09/966,545 TIME: 10:30:36

Input Set : N:\Crf3\RULE60\09966545.raw
 Output Set: N:\CRF3\01142002\I966545.raw

1 <110> APPLICANT: Fernandes, Elma
 2 Vernet, Corine
 3 Shimkets, Richard A.
 4 <120> TITLE OF INVENTION: Novel Human Proteins and Polynucleotides Encoding
 5 Them
 6 <130> FILE REFERENCE: Cura-46 (15966-546)
 7 <140> CURRENT APPLICATION NUMBER: US/09/966,545
 8 <141> CURRENT FILING DATE: 2001-09-26
 9 <150> PRIOR APPLICATION NUMBER: 09/544,511
 10 <151> PRIOR FILING DATE: 2000-04-06
 11 <160> NUMBER OF SEQ ID NOS: 57
 12 <170> SOFTWARE: PatentIn Ver. 2.0
 14 <210> SEQ ID NO: 1
 15 <211> LENGTH: 1107
 16 <212> TYPE: DNA
 17 <213> ORGANISM: Homo sapiens
 18 <220> FEATURE:
 19 <221> NAME/KEY: CDS
 20 <222> LOCATION: (65)..(598)
 21 <400> SEQUENCE: 1
 aattcggtag gaggctgggg ttcaggcgaa cagcagctgc aggctgaccc tgcagcttgg 60
 23 cgga atg gac tgg cct cac aac ctg ctg ttt ctt ctt acc att tcc atc 109
 24 Met Asp Trp Pro His Asn Leu Leu Phe Leu Leu Thr Ile Ser Ile
 25 1 5 10 15
 26 ttc ctg ggg ctg ggc agc cag gag ccc caa aag caa gag gaa ggg gca 157
 27 Phe Leu Gly Leu Gly Ser Gln Glu Pro Gln Lys Gln Glu Glu Gly Ala
 28 20 25 30
 29 agg ggc tgg gcc ctg gcc tgg cct cac cag gtg cca ctg gac ctg 205
 30 Arg Ala Ala Trp Ala Leu Ala Trp Pro His Gln Val Pro Leu Asp Leu
 31 35 40 45
 32 gtg tca cgg atg aaa ccg tat gcc cgc atg gag gag tat gag agg aac 253
 33 Val Ser Arg Met Lys Pro Tyr Ala Arg Met Glu Glu Tyr Glu Arg Asn
 34 50 55 60
 35 atc gag gag atg gtg gcc cag ctg agg aac agc tca gag ctg gcc cag 301
 36 Ile Glu Glu Met Val Ala Gln Leu Arg Asn Ser Ser Glu Leu Ala Gln
 37 65 70 75
 38 aga aag tgt gag gtc aac ttg cag ctg tgg atg tcc aac aag agg agc 349
 39 Arg Lys Cys Glu Val Asn Leu Gln Leu Trp Met Ser Asn Lys Arg Ser
 40 80 85 90 95
 41 ctg tct ccc tgg ggc tac agc atc aac cac gac ccc agc cgt atc ccc 397
 42 Leu Ser Pro Trp Gly Tyr Ser Ile Asn His Asp Pro Ser Arg Ile Pro
 43 100 105 110
 44 gtg gac ctg ccg gag gca cgg tgc ctg tgt ctg ggc tgt gtg aac ccc 445
 45 Val Asp Leu Pro Glu Ala Arg Cys Leu Cys Leu Gly Cys Val Asn Pro
 46 115 120 125
 47 ttc acc atg cag gag gac cgc agc atg gtg agc gtg ccg gtg ttc agc 493
 48 Phe Thr Met Gln Glu Asp Arg Ser Met Val Ser Val Pro Val Phe Ser

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/966,545

DATE: 01/14/2002
TIME: 10:30:36

Input Set : N:\Crf3\RULE60\09966545.raw
Output Set: N:\CRF3\01142002\I966545.raw

49 130 135 140
 50 cag gtt cct gtg cgc cgc cgc ctc tgc ccg cca ccg ccc cgc aca ggg 541
 51 Gln Val Pro Val Arg Arg Arg Leu Cys Pro Pro Pro Pro Arg Thr Gly
 52 145 150 155
 53 cct tgc cgc cag cgc gca gtc atg gag acc atc gct gtg ggc tgc acc 589
 54 Pro Cys Arg Gln Arg Ala Val Met Glu Thr Ile Ala Val Gly Cys Thr
 55 160 165 170 175
 56 tgc atc ttc tgaatcacct ggcccagaag ccaggccagc agcccgagac 638
 57 Cys Ile Phe
 58 catcctcctt gcacctttgt gccaagaaaag gcctatgaaa agtaaacact gactttgaa 698
 59 agcaaaaaaaa ccccagaag cttcggctgg gttccagaca catggaaaac agacttcctg 758
 60 tgccagcgca tgctgatccc ttccagcagcc gcttctccac ccttggggct gctctccagc 818
 61 acctggcagt gtccagagcg gataggggcg ccgtgtttgg tgaatgagtg cacagacgcc 878
 62 tctaggggga gcccaagatc tgccctctgc ctccctctat tatgccttca taggtgggtc 938
 63 agaaacaaaga attccttatac aacctcccg gtcggccact gccaatcacc cacctccatt 998
 64 ctaccctcta cagctggccc ttatccccca aagtccctgaa attttgcttg ggtcacctgc 1058
 65 tccaggaggc agagttccca tgaagggtat taaacgtcta ctacactgc 1107
 67 <210> SEQ ID NO: 2
 68 <211> LENGTH: 178
 69 <212> TYPE: PRT
 70 <213> ORGANISM: Homo sapiens
 71 <400> SEQUENCE: 2
 72 Met Asp Trp Pro His Asn Leu Leu Phe Leu Leu Thr Ile Ser Ile Phe
 73 1 5 10 15
 74 Leu Gly Leu Gly Ser Gln Glu Pro Gln Lys Gln Glu Glu Gly Ala Arg
 75 20 25 30
 76 Ala Ala Trp Ala Leu Ala Trp Pro His Gln Val Pro Leu Asp Leu Val
 77 35 40 45
 78 Ser Arg Met Lys Pro Tyr Ala Arg Met Glu Glu Tyr Glu Arg Asn Ile
 79 50 55 60
 80 Glu Glu Met Val Ala Gln Leu Arg Asn Ser Ser Glu Leu Ala Gln Arg
 81 65 70 75 80
 82 Lys Cys Glu Val Asn Leu Gln Leu Trp Met Ser Asn Lys Arg Ser Leu
 83 85 90 95
 84 Ser Pro Trp Gly Tyr Ser Ile Asn His Asp Pro Ser Arg Ile Pro Val
 85 100 105 110
 86 Asp Leu Pro Glu Ala Arg Cys Leu Cys Leu Gly Cys Val Asn Pro Phe
 87 115 120 125
 88 Thr Met Gln Glu Asp Arg Ser Met Val Ser Val Pro Val Phe Ser Gln
 89 130 135 140
 90 Val Pro Val Arg Arg Arg Leu Cys Pro Pro Pro Pro Arg Thr Gly Pro
 91 145 150 155 160
 92 Cys Arg Gln Arg Ala Val Met Glu Thr Ile Ala Val Gly Cys Thr Cys
 93 165 170 175
 94 Ile Phe
 96 <210> SEQ ID NO: 3
 97 <211> LENGTH: 1603
 98 <212> TYPE: DNA
 99 <213> ORGANISM: Homo sapiens

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/966,545

DATE: 01/14/2002
TIME: 10:30:36

Input Set : N:\Crf3\RULE60\09966545.raw
Output Set: N:\CRF3\01142002\I966545.raw

100 <220> FEATURE:
101 <221> NAME/KEY: CDS
102 <222> LOCATION: (92)..(1123)
103 <400> SEQUENCE: 3
104 caagcttgg agcaacacaa tctatcagga aagaaagaaa gaaaaaaacc gaacctgaca 60
105 aaaaagaaga aaaagaagaa gaaaaaaaaat c atg aaa acc atc cag cca aaa 112
106 Met Lys Thr Ile Gln Pro Lys
107 1 5
108 atg cac aat tct atc tct tgg gca atc ttc acg ggg ctg gct gct ctg 160
109 Met His Asn Ser Ile Ser Trp Ala Ile Phe Thr Gly Leu Ala Ala Leu
110 10 15 20
111 tgt ctc ttc caa gga gtg ccc gtg cgc agc gga gat gcc acc ttc ccc 208
112 Cys Leu Phe Gln Gly Val Pro Val Arg Ser Gly Asp Ala Thr Phe Pro
113 25 30 35
114 aaa gct atg gac aac gtg acg gtc cgg cag ggg gag agc gcc acc ctc 256
115 Lys Ala Met Asp Asn Val Thr Val Arg Gln Gly Glu Ser Ala Thr Leu
116 40 45 50 55
117 agg tgc act att gac aac cgg gtc acc cgg gtg gcc tgg cta aac cgc 304
118 Arg Cys Thr Ile Asp Asn Arg Val Thr Arg Val Ala Trp Leu Asn Arg
119 60 65 70
120 agc acc atc ctc tat gct ggg aat gac aag tgg tgc ctg gat cct cgc 352
121 Ser Thr Ile Leu Tyr Ala Gly Asn Asp Lys Trp Cys Leu Asp Pro Arg
122 75 80 85
123 gtg gtc ctt ctg agc aac acc caa acg cag tac agc atc gag atc cag 400
124 Val Val Leu Leu Ser Asn Thr Gln Thr Gln Tyr Ser Ile Glu Ile Gln
125 90 95 100
126 aac gtg gat gtg tat gac gag ggc cct tac acc tgc tcg gtg cag aca 448
127 Asn Val Asp Val Tyr Asp Glu Gly Pro Tyr Thr Cys Ser Val Gln Thr
128 105 110 115
129 gac aac cac cca aag acc tct agg gtc cac ctc att gtg caa gta tct 496
130 Asp Asn His Pro Lys Thr Ser Arg Val His Leu Ile Val Gln Val Ser
131 120 125 130 135
132 ccc aaa att gta gag att tct tca gat atc tcc att aat gaa ggg aac 544
133 Pro Lys Ile Val Glu Ile Ser Ser Asp Ile Ser Ile Asn Glu Gly Asn
134 140 145 150
135 aat att agc ctc acc tgc ata gca act ggt aga cca gag cct acg gtt 592
136 Asn Ile Ser Leu Thr Cys Ile Ala Thr Gly Arg Pro Glu Pro Thr Val
137 155 160 165
138 act tgg aga cac atc tct ccc aaa gcg gtt ggc ttt gtg agt gaa gac 640
139 Thr Trp Arg His Ile Ser Pro Lys Ala Val Gly Phe Val Ser Glu Asp
140 170 175 180
141 gaa tac ttg gaa att cag ggc atc acc cgg gag cag tca ggg gac tac 688
142 Glu Tyr Leu Glu Ile Gln Gly Ile Thr Arg Glu Gln Ser Gly Asp Tyr
143 185 190 195
144 gag tgc agt gcc tcc aat gac gtg gcc gcg ccc gtg gta cgg aga gta 736
145 Glu Cys Ser Ala Ser Asn Asp Val Ala Ala Pro Val Val Arg Arg Val
146 200 205 210 215
147 aag gtc acc gtg aac tat cca cca tac att tca gaa gcc aag ggt aca 784
148 Lys Val Thr Val Asn Tyr Pro Pro Tyr Ile Ser Glu Ala Lys Gly Thr

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/966,545

DATE: 01/14/2002
TIME: 10:30:36

Input Set : N:\Crf3\RULE60\09966545.raw
Output Set: N:\CRF3\01142002\I966545.raw

149	220	225	230	
150	ggt gtc ccc gtg gga caa aag ggg aca ctg cag tgt gaa gcc tca gca			832
151	Gly Val Pro Val Gly Gln Lys Gly Thr Leu Gln Cys Glu Ala Ser Ala			
152	235	240	245	
153	gtc ccc tca gca gaa ttc cag tgg tac aag gat gac aaa aga ctg att			880
154	Val Pro Ser Ala Glu Phe Gln Trp Tyr Lys Asp Asp Lys Arg Leu Ile			
155	250	255	260	
156	gaa gga aag aaa ggg gtg aaa gtg gaa aac aga cct ttc ctc tca aaa			928
157	Glu Gly Lys Lys Gly Val Lys Val Glu Asn Arg Pro Phe Leu Ser Lys			
158	265	270	275	
159	ctc atc ttc ttc aat gtc tct gaa cat gac tat ggg aac tac act tgc			976
160	Leu Ile Phe Phe Asn Val Ser Glu His Asp Tyr Gly Asn Tyr Thr Cys			
161	280	285	290	295
162	gtg gcc tcc aac aag ctg ggc cac acc aat gcc agc atc atg cta ttt			1024
163	Val Ala Ser Asn Lys Leu Gly His Thr Asn Ala Ser Ile Met Leu Phe			
164	300	305	310	
165	ggt cca ggc gcc gtc agc gag gtg agc aac ggc acg tcg agg agg gca			1072
166	Gly Pro Gly Ala Val Ser Glu Val Ser Asn Gly Thr Ser Arg Arg Ala			
167	315	320	325	
168	ggc tgc gtc tgg ctg ccg cct ctt ctg gtc ttg cac ctg ctt ctc aaa			1120
169	Gly Cys Val Trp Leu Pro Pro Leu Leu Val Leu His Leu Leu Leu Lys			
170	330	335	340	
171	ttt tgatgtgagt gccacttccc caccggaa aggctgccgc caccaccacc			1173
172	Phe			
173	accaacacaa cagcaatggc aacaccgaca gcaaccaatc agatatac aaatgaaatt			1233
174	agaagaaaca cagcctcatg ggacagaaat ttgaggagg ggaacaaaga atactttggg			1293
175	gggaaaagag tttaaaaaaa gaaattgaaa attgccttgc agatatttag gtacaatgg			1353
176	gttttctttt cccaaacggg aagaacacag cacaccggc ttggaccac tgcaagctgc			1413
177	atcgtcaac ctctttggt ccagtgtggg caagggctca gcctctctgc ccacagagt			1473
178	cccccacgtg gaacattctg gagctggcca tcccaaattc aatcgtcca tagagacgaa			1533
179	cagaatgaga cttccggcc caagcgtggc gctgcggca ctttggtaga ctgtgccacc			1593
180	acggcgtgtg			1603
182	<210> SEQ ID NO: 4			
183	<211> LENGTH: 344			
184	<212> TYPE: PRT			
185	<213> ORGANISM: Homo sapiens			
186	<400> SEQUENCE: 4			
187	Met Lys Thr Ile Gln Pro Lys Met His Asn Ser Ile Ser Trp Ala Ile			
188	1	5	10	15
189	Phe Thr Gly Leu Ala Ala Leu Cys Leu Phe Gln Gly Val Pro Val Arg			
190	20	25	30	
191	Ser Gly Asp Ala Thr Phe Pro Lys Ala Met Asp Asn Val Thr Val Arg			
192	35	40	45	
193	Gln Gly Glu Ser Ala Thr Leu Arg Cys Thr Ile Asp Asn Arg Val Thr			
194	50	55	60	
195	Arg Val Ala Trp Leu Asn Arg Ser Thr Ile Leu Tyr Ala Gly Asn Asp			
196	65	70	75	80
197	Lys Trp Cys Leu Asp Pro Arg Val Val Leu Leu Ser Asn Thr Gln Thr			
198	85	90	95	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/966,545

DATE: 01/14/2002
TIME: 10:30:36

Input Set : N:\Crf3\RULE60\09966545.raw
Output Set: N:\CRF3\01142002\I966545.raw

199 Gln Tyr Ser Ile Glu Ile Gln Asn Val Asp Val Tyr Asp Glu Gly Pro
 200 100 105 110
 201 Tyr Thr Cys Ser Val Gln Thr Asp Asn His Pro Lys Thr Ser Arg Val
 202 115 120 125
 203 His Leu Ile Val Gln Val Ser Pro Lys Ile Val Glu Ile Ser Ser Asp
 204 130 135 140
 205 Ile Ser Ile Asn Glu Gly Asn Asn Ile Ser Leu Thr Cys Ile Ala Thr
 206 145 150 155 160
 207 Gly Arg Pro Glu Pro Thr Val Thr Trp Arg His Ile Ser Pro Lys Ala
 208 165 170 175
 209 Val Gly Phe Val Ser Glu Asp Glu Tyr Leu Glu Ile Gln Gly Ile Thr
 210 180 185 190
 211 Arg Glu Gln Ser Gly Asp Tyr Glu Cys Ser Ala Ser Asn Asp Val Ala
 212 195 200 205
 213 Ala Pro Val Val Arg Arg Val Lys Val Thr Val Asn Tyr Pro Pro Tyr
 214 210 215 220
 215 Ile Ser Glu Ala Lys Gly Thr Gly Val Pro Val Gly Gln Lys Gly Thr
 216 225 230 235 240
 217 Leu Gln Cys Glu Ala Ser Ala Val Pro Ser Ala Glu Phe Gln Trp Tyr
 218 245 250 255
 219 Lys Asp Asp Lys Arg Leu Ile Glu Gly Lys Lys Gly Val Lys Val Glu
 220 260 265 270
 221 Asn Arg Pro Phe Leu Ser Lys Leu Ile Phe Phe Asn Val Ser Glu His
 222 275 280 285
 223 Asp Tyr Gly Asn Tyr Thr Cys Val Ala Ser Asn Lys Leu Gly His Thr
 224 290 295 300
 225 Asn Ala Ser Ile Met Leu Phe Gly Pro Gly Ala Val Ser Glu Val Ser
 226 305 310 315 320
 227 Asn Gly Thr Ser Arg Arg Ala Gly Cys Val Trp Leu Pro Pro Leu Leu
 228 325 330 335
 229 Val Leu His Leu Leu Lys Phe
 230 340
 232 <210> SEQ ID NO: 5
 233 <211> LENGTH: 2012
 234 <212> TYPE: DNA
 235 <213> ORGANISM: Homo sapiens
 236 <220> FEATURE:
 237 <221> NAME/KEY: CDS
 238 <222> LOCATION: (501)..(1532)
 239 <400> SEQUENCE: 5
 240 gccagggaaat gccagggggaa aagggatttt ctgatactca gaagactcag agactgtcag 60
 241 tttaaaaaat gaaagtaata tagaaggggc aaagtggcat ttatcattct atctctccag 120
 242 gctcctgtct cttaatcag ctagcctgat ttgcccagta aatgattcct gagagtgtgt 180
 243 gtgcgtgtgt gtgtgtgtgt gtgcccgcgc gcgtgtgttg tagctctgtc aatccttgg 240
 244 tttagaaccaa tgattgcagc ttgtaagagg gctgtccagg gccagattgt acaatgtgtc 300
 245 tcagtgccag agtatgagtg gagataatta cggagaagtc atactctctc acaccctcgg 360
 246 ctttcttgggtt gtgtccttca gcaaaaacagt ggatttaaat ctccttgacac aagcttgaga 420
 247 gcaacacaat ctatcaggaa agaaaagaaaag aaaaaaaaccg aacctgacaa aaaagaagaa 480
 248 aaagaagaag aaaaaaaaaatc atg aaa acc atc cag cca aaa atg cac aat tct 533

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/966,545

DATE: 01/14/2002

TIME: 10:30:37

Input Set : N:\Crf3\RULE60\09966545.raw
Output Set: N:\CRF3\01142002\I966545.raw

L:603 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11

L:604 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11